	Application No.	Applicant(s)
Notice of Allowability	10/828,829	LIPPINCOTT, LOUIS A.
	Examiner	Art Unit	
	Wenpeng Chen	2624	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *amendment filed on 11/17/2006*.

2. ☒ The allowed claim(s) is/are *2-15 (now renumbered as 1-14, respectively)*.

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some*   c)☐ None   of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

   * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a)☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1)☐ hereto or 2)☐ to Paper No./Mail Date _____ .

    (b)☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application

6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____ .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ :
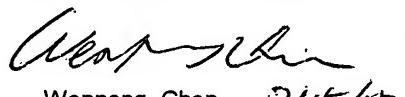
Wenpeng Chen   2/15/07
Primary Examiner
Art Unit: 2624

Examiner's Amendment/Statement

1.   An examiner's amendment to the record appears below. Should the changes

and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37

CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than

the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Cheng C. Ko on 2/9/2007 and Scott Harris on 2/13/2007.

2.   The application has been amended as follows:

In claims:

-- Amend Claims 1, 6, and 15 as attached at the end of this Office Action.

Examiner's Statement of Reasons for Allowance

3.   Claim 1 is canceled by the applicants.

4.   Claims 2-15 (now renumbered as 1-14, respectively) are allowed.

The following is an examiner's statement of reasons for allowance. The prior art fails to

teach the method of Claim 1, the apparatus of Claim 6, and the article of Claim 15 that

specifically comprise the following features in combination with other recited limitations:

-- fetching vertically contiguous first pixels of a higher definition television image at an image update rate;

-- vertically scaling the first pixels to produce a vertically scaled set of pixels representing scaling of the entire television image;

-- after said vertically scaling, reading the vertically scaled set of pixels at an image display rate and horizontally scaling the vertically scaled set of pixels at the image display rate to form a final two-dimensional scaled image of a lower definition;

-- wherein the image update rate is different from the image display rate.

5.   Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

6.   Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wenpeng Chen whose telephone number is 571-272-7431. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bhavesh Mehta can be reached on 571-272-7453. The fax phone numbers for the organization where this application or proceeding is assigned are 571-273-8300 for regular

communications and 571-273-8300 for After Final communications. TC 2600's customer service number is 571-272-2600.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2600.

Wenpeng Chen
Primary Examiner
Art Unit 2624

February 15, 2007

Examiner Amendments

2. (Currently Amended) A method, comprising:

storing an entire higher definition television image in a memory;

reading locations from the memory at an image update rate to fetch first pixels in the image, which are vertically contiguous in the image;

vertically scaling the first pixels to produce in the memory a vertically scaled set of pixels representing scaling of the entire television image; and

after said vertically scaling of the entire image, reading the vertically scaled set of pixels from the memory at an image display rate and horizontally scaling the vertically scaled set of pixels at the image display rate to form a final two-dimensional scaled image of a lower definition;

wherein the image update rate is different from the image display rate.

6. (Currently Amended) An apparatus comprising:

a memory operable to store a higher definition television image;

a scaling element, configured to first fetch pixels of the higher definition television image at an image update rate and to vertically scale the higher definition pixels to produce a vertically scaled image of contiguous, vertically scaled, horizontal pixels in the memory and to read pixels of the vertically scaled image only after the entire vertically scaled image has been formed, at an image display rate and horizontally scale pixels of the vertically scaled image at the image display rate to form a lower definition image of pixel representing a final two-dimensional scaled image; and

a computer monitor operable to display the final two-dimensional scaled image;

wherein the image update rate is different from the image display rate.

15. (Currently Amended) An article comprising a computer-readable medium which stores computer-executable instructions for scaling each high definition television image that appears in a video sequence of images for display on a computer monitor that displays downscaled images, the instructions causing a computer to:

store an entire higher definition television image in a memory;

read locations from the memory at an image update rate to fetch first pixels in the image, which are vertically contiguous in the image;

vertically scale the first pixels to produce in the memory a vertically scaled set of pixels representing scaling of the entire television image;

after said vertically scaling of the entire image, read the vertically scaled set of pixels from the memory at an image display rate and horizontally scale the vertically scaled set of pixels at the image display rate to form a final two-dimensional scaled image of a lower definition; and

display the final two-dimensional scaled image;

wherein the image update rate is different from the image display rate.